Flush-Mounted
Ceiling Mount Speaker

WS-TN13E

6w
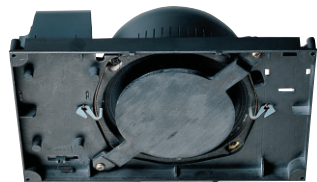
Speaker Panels

WS-TP10E

WS-TP12E

WS-TP13E

WS-TP14E
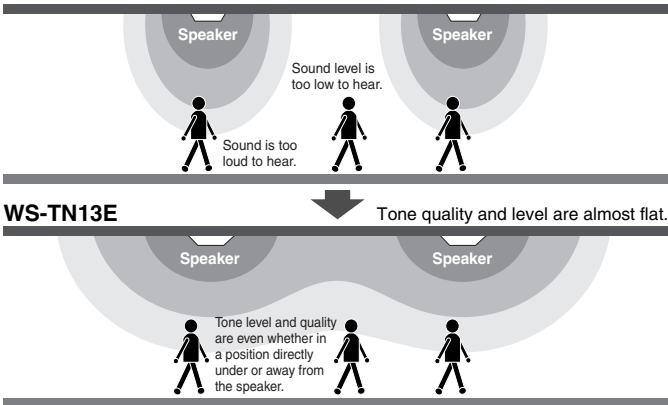
Speaker Volume Controllers

WZ-VC106E/F
(0.5 W ~ 6 W)

WZ-VC130E/F
(0.5 W ~ 30 W)

WZ-VC160E/F
(0.5 W ~ 60 W)

Ceiling-Mounted Speaker

Conventional ceiling-mounted speaker

Speaker   Speaker

Sound level is too low to hear.

Sound is too loud to hear.

WS-TN13E   Tone quality and level are almost flat.

Speaker   Speaker

Tone level and quality are even whether in a position directly under or away from the speaker.

Pursuing uniformity of tone quality

A special diffuser radiates sound in both the downward and horizontal directions. While optimizing the sound level directly under the speaker, the diffuser delivers sufficient sound levels in the higher frequencies to positions away from the speaker, thus ensuring the delivery of clear sound.

Simple, easy installation

Wide-directional design is employed to cover a wide area with a small number of speaker units, thus ensuring cost reductions during installation work. Furthermore, quick connection terminals are employed, ensuring one-touch connection of cables without using any tools. The speaker panel (option) is of a spring type, and all you have to do is to hang it in the desired place.

Economical efficiency during remodeling

When remodeling your shop, you can change the interior atmosphere just by replacing the speaker panels.

Speaker Volume Controllers

● 6 W/30 W/60 W transformer type. Broad wattage range adapts flexibly to wattage fluctuations while work is underway.
● 5-level sound volume adjustment. Addition of –18 dB level allows use in quieter environments.
● One-touch snap on insulator. For easier connecting and insulation.
● Equipped with protective back cover to provide a safer working environment.
● Uses one-touch snap on terminals equipped with release buttons.

* Requires solid copper wire cabling ø0.8 mm - ø1.6 mm.

SPECIFICATIONS

Model No.	WS-TN13E
Standard Inputs	6 W, 3 W, 1 W
Input Impedance	1.67 kΩ, 3.3 kΩ, 10 kΩ,
Sound Pressure Level*	94 dB (1 m/ 1 W)
Frequency Response	120 Hz - 15 kHz
Speaker Type	12 cm cone speaker
Operating Temperature Range	−20˚C to +50˚C
Dimensions	134 mm (W) x 215.5 mm (H) x 88.5 mm (Internal Component Height)
Weight (approx.)	600 g
Required Opening	ø150 mm - 160 mm
Finish	Black polystyrene

*Output level is defined in accordance with JISC5531 and differs from the security warning (Signal No. 2) level.

SPECIFICATIONS

Model No.	WZ-VC106E/F	WZ-VC130E/F	WZ-VC160E/F
Standard Inputs	0.5 W - 6 W	0.5 W - 30 W	0.5 W - 60 W
Input Impedance	20 kΩ - 1.67 kΩ	20 kΩ - 330 Ω	20 kΩ - 167 Ω
Volume Adjustment	5-level: OFF, 1 (–18 dB), 2 (–12 dB), 3 (–6 dB), 4 (0 dB) reduction		
Dimensions	70 mm (W) x 120 mm (H) x 49 mm (D)		
Weight (approx.)	210 g		
Finish	Milk White Plate: Aluminum brushed finish		

SPECIFICATIONS

Model No.	WS-TP10E	WS-TP12E	WS-TP13E	WS-TP14E
Dimensions	ø180 x 10.5 mm			
(Exposed height)	8.5 mm			
Weight (approx.)	60 g	75 g	70 g	80 g
Finish	Integrated PP Integrated white (Munsell 10Y9/1)	Frame: ABS resin Integrated white (Munsell 10Y9/1) Net: Punched aluminum Integrated white (Munsell 10Y9/1)	Frame: ABS resin Integrated white (Munsell 10Y9/1) Net: Expanded metal net Integrated white (Munsell 10Y9/1)	Frame: Aluminum frame Base color: Satin finish Net: Punched aluminum AV ivory (Munsell 7.9Y6.8/0.8)